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# NUMBERS & ODDITIES #
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[- N&O #01 -]

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#### THE COME-BACK OF A COLUMN.

When we started WUN in January 1995, 'Numbers & Oddities' was my first column. When the amount of other items increased, the name 'Numbers & Oddities' didn't cover the contents of the column any longer and I changed the name to 'Utility Round-up'.

The numbers or 'spook' scene is very much alive these days and I think that this is a good time to revive this column. 'Numbers & Oddities' will cover the radio stations which are generally associated with secret services. Actually, I'd like to cover all fascinating covert-like communications, from numbers stations to terrorist comms and from the buzzer to jammers. Here is a summary of what I have in mind:

- Voice numbers stations
- Morse numbers stations
- RTTY and other mysty stations
- Terrorist and other covert comms
- Spy articles
- Crypto stuff
- 'Memory Lane'; stations from the past
- Schedules
- Log summaries
- Articles about jamming and more.....

I found three experienced 'spooks-dxers' who agreed co-edit this column with me. Guy Denman will handle the morse stations and Chris Smolinski the voice stations, while Jascha Ruesseler takes on the logs.

Numbers & Oddities will be posted as a separate newsletter for the members of the Spooks mailing list. The 'newsletter edition' will be slightly different from the WUN column, as we will include a log section at the end.

Needless to say that we cannot do this without your help. We hope you

will enjoy the stuff in this column and don't forget to send us your findings. Flood our mailboxes :-)

-Ary-

We start this first edition of N&O with a slightly edited 'Introduction to spy numbers transmissions' by the late Havana Moon. He posted this a couple of years ago to the SWL newsgroup.

#### INTRODUCTION TO SPY NUMBERS TRANSMISSIONS

"Spy Numbers Transmissions" are a shortwave oddity which have been around for the last 30 years. They are commonly heard in English, German, Spanish and the Slavic languages and take the form of four and five digit groups of numbers which are preceded by a three digit "identifier" and a "group count" which corresponds to the number of number groups transmitted in the crypt. They are generally broadcast by a mechanical-sounding YL, although Morse code (CW) "cut number" transmissions are also frequently reported, as are phonetic alphabet transmissions. Several distinctly different formats have been noted.

The "who" and "why" aspects of these transmissions are, for the most part, unknown. Their mysterious nature has resulted in their common characterization as 'spy' transmissions. The spy theory has been enhanced over the years by the FCC's inconsistent position in response to numerous inquiries by the Shortwave Listening community.

If you've never heard a numbers transmission, tune your radio to one of the frequencies on the log-list. You'll almost certainly hear a 'classic' numbers transmission which will run from 15-30 minutes.

In regards the "where" - a number of sites have been identified in recent years, notably in Warrenton and Remington, VA and Miami, FL. In addition, with the aid of sophisticated RDF (radio direction finding) equipment and the invaluable assistance of highly authoritative and professional resources, several new transmission sites have been positively identified over the past years, including sites in Nicaragua, Honduras, El Salvador, Cuba and Cozumel.

One particularly dangerous station has been interfering with air to ground traffic on 6577 kHz, a frequency allocated to international aeronautical communications in the busy Caribbean sector. On at least one monitored transmission, the air traffic controller at ARINC moved the pilot to an alternate frequency as the numbers transmission was totally blocking the frequency from effective use. An identified Cuban site (Guineo) is believed to be a major transmitter site used by DGI (Cuban Intelligence).

There has been some suggestion that the numbers are a form of 'one-time-pad' - a crude but unbreakable form of encryption (unless you've got the key, that is) - if that's the case, it's very curious

to note that the same five-digit groups are often seen to repeat over and over again in the very same crypt - and that the same transmissions are seen to repeat from week to week, and from month to month - so often, in fact, that tape breaks are sometimes noted. When spliced back together, the sloppy handling sometimes results in truncated 5-digit groups - the end result being a mixture of 4 and 5 digit groups in the very same transmission!

These facts would tend to point one away from the one-time-pad concept and support a couple of other theories - suggesting that the numbers are NOT a cipher, but rather a code unto themselves, and that much of this traffic is 'dummy' in nature - broadcast simply to keep a frequency open over a long period of time.

In addition, most five-digit Spanish numbers transmissions are very badly over-modulated, resulting in numerous spurs up and down frequency. When broadcast under such conditions, the numbers (6) seis and (7) siete are almost indistinguishable, making it impossible to copy a crypt without numerous errors. It is worth noting that the four-digit Spanish and English transmissions do not reflect this same technical ineptitude.

<Havana Moon>

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Besides WUN and the Spooks mailinglist, there is another group that covers the numbers stations: ENIGMA, the European Numbers Information Gathering and Monitoring Association. ENIGMA coded all numbers stations. N&O and Spooks will use the same designators. We intend to publish extended profiles of these stations in due time. Here is the list:

ENIGMA DESIGNATORS (updated 2-4-1998 by Simon Mason)

- E1- "Ready Ready" YL/EE
- E2- Arabic Man
- E3- "Lincolnshire Poacher" YL/EE MI6
- E4- "Cherry Ripe" YL/EE MI6
- E5- "Counting Station" YL/EE CIA
- E6- "Russian Man" OM/EE 00000 ex KGB
- E7- "Russian Man" OM/EE 000 000 ex KGB
- E8-
- E9- "Magnetic Fields" YL/EE 44D
- E10- MOSSAD Phonetic Alphabet Station YL
- E10a VLB2 etc. variant YL
- E11- "Oblique" YL/EE
- E12- "NNN" YL/EE
- E13- "5 Dashes" YL/EE
- E14- "Count Control" YL/EE CIA
- E15- "Mary Susan Adam" YL+OM

E16- "2 Letter" YL/EE BND  
E17- "English Lady" 274 00000 YL/EE ex KGB  
E18- "Fife Free" YL/EE  
E19- "Irish Man" OM/EE  
E20- 2 message format of E17 or E6 YL/EE  
E21- "4F Counting Station" YL/EE CIA

G01- Tyrolean Music Station YL+OM/GG  
G02- "Swedish Rhapsody" YL/GG  
G03- "The Gong Station" YL/GG Stasi  
G04- "3 Note Oddity" YL/GG  
G05- "Counting Station" YL/EE CIA  
G06- "German Lady" 00000 YL/GG  
G07- "German Lady" 000 000 YL/GG  
G08- "Four Note Rising Scale" YL/GG Stasi  
G09- "Saxophone Piece" YL/GG  
G10- "Bert Kaempfert" YL/GG  
G11- "Strich" YL/GG  
G12- "NNN" YL/GG  
G13- "Five Dashes" YL/GG  
G14- DFC37/DFD21 YL/GG BND  
G15- "Papa November" YL/GG BND  
G16- "2 Letter Station" YL/GG BND  
G17- German Lady on 5420 kHz YL/GG  
G18- 8 Note Rising and Falling  
G19- "German Man" 00000 OM/GG ex KGB  
G20- "Spruch" OM/GG  
G21- "Music and Morse"  
G22- "Edna Sednitzer" YL/GG  
G23- "2M8" Hitler's Birthday

S01- "Aida"  
S02- "Drums and Trumpets"  
S03- Czech Words OKNO OKNO  
S04- "Edna Sednitzer"  
S05- OLX null messages  
S06- Russian Man 00000 OM/RR  
S07- Russian Man 000 000 OM/RR  
S08- "YT" YL/RR  
S09- Polish Counting  
S10- Czech Lady five note intro  
S11- "Presta"  
S12- "Cherta"  
S13- Russian Counting UPT76 etc.  
S14- As S13 Shield 58 etc.  
S15- Rapid Dots YL/CZ  
S16- OLX YL/CZ  
S17- Czech Lady "Control"

S18- Czech Man 3F 5F  
S19- Czech Man Control  
S20- "Aifada"  
S21- Russian Lady 342 etc.  
S22-  
S23- "Barbara"  
S24-  
S25- Russian Man Control  
S26- "Zyt Zyt"

V01- Rumanian Skylark OM/RU  
V02- Spanish Lady 2 finals 3 finals  
V03-  
V04-  
V05- Spanishcounting 3/2f  
V06- Spanish Lady 00000  
V07- Spanish Man 000 000  
V08- Eastern Music Arabic  
V09- Oriental Language 5738kHz  
V10- "Schlosst"  
V12- "NNN" YL/FF  
V13- New Star Taiwan  
V14- "Count Control" YL/SS  
V15- North Korea R. Pyongyang  
V16- Chinese 11028kHz  
V17- Rumanian3F 000  
V18- "NNN" Hungarian  
V19- WTR21 "Argentina"

M01- "2-Tone"hand-keyed  
M02- Ends AR Long Zero  
M03- / Ends ==000  
M04 L0L0 Long Zero  
M05- 6 Fig 000000 Long Zero  
M06- OLX  
M07- Formerly Rapid Dashes MCW ends 000 + TS  
M08- Cut Numbers, Ends AR AR AR SK SK SK  
M09-  
M10- Formerly Rapid Dashes CW 2 fig DK, End 000  
M11-  
M12- Ends 000 000(3 or 4 fig. DK)  
M13- Ends 3 long dashes  
M14- Ends 00000 or 5 long dashes  
M15- DEA 47  
M16- 8BY  
M17- MCW ends VA  
M18- 4 fig pseudo time signal  
M19- MPL

M20- V ends == 000  
M21- ????? 14 fig pseudo time signal type.  
M22- 4XZ  
M23- Odd/Even Many Variants (all long zero)  
M24- Ends 5 long dashes, see M14  
M25- KKN, KRH, KWS series  
M26- 98  
M27- BTV  
M28- HEP  
M29- VDE ends AR  
M30  
M31- FDC, FDG etc series  
M32- (Russian Military Net)  
M33- P8K Long Zero  
M34- 11 12345 2fig IDs, no ending  
M39- 3 fig IDs + 4 elements of 5 fig.  
M40- CQ 3 fig  
M41- WZD  
M42- KUL etc network  
M43- 6XM8/C37A group  
M44- Continuous Letters  
M45- S21 Morse, ends 000  
M46- 3 fig cumulative  
M47- 1/2/3fig cumulative (JST)  
M48- Ciocirlia Morse  
M49- G8A morse  
M50- Hand Keyed 5431kHz+ 4947kHz Many Variants  
M51- 100x 5L groups  
M52- 2fig:6fig

MX SLHFMs	MXC Clusters
MXF FSK Mode	MXL Solitary long-term
MXS Solitary short-term	MXP "P" with message
MXV irregular V	

X1 Bugle	X6 six notes
XC Crackle	XB Buzzer
XF Faders	XE Echo
XW Workshop	XP Polytone
XPL Polytone Low Pitch	XM Backward Music
XX Pip	XS Saw/Whine

#### CUT NUMBERS

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Some numbers stations use 'cut numbers' in CW transmissions. Six variations have been noted so far.

The most popular is the one where only the zero is a cut number: 'T'.

1 2 3 4 5 6 7 8 9 0  
1 2 3 4 5 6 7 8 9 T

M8 and perhaps also other stations use the following variation:

1 2 3 4 5 6 7 8 9 0  
A N D U W R I G M T

The QWERTY variation: 1 2 3 4 5 6 7 8 9 0  
Q W E R T Y U I O P

The 4FG station uses a system that has at least 3 variations. The first one is being used by the 4FG station. The others have been noted in military and maritime communications:

1 2 3 4 5 6 7 8 9 0  
A U 3 4 5 6 7 D N T  
A U V 4 E 6 B D N T  
A U V 4 5 6 B D N T

MORSE STATIONS by Guy Denman

-----  
Ary has asked me to write some information for those of you interested in Numbers stations. As my main interest is in Morse stations I intend to cover some of these to start with. Particularly as there are many more morse families than voice. A very busy time is 2000, where you can have 4 on at the same time. Whatever your morse speed there is one that you would be able to copy out of the many. They vary in speed from 5 WPM to 40 WPM. I intend to use the ENIGMA classification for these.

M1 A Network is hand sent using short zero, and the messages have a usual group count of 40 groups. Although just recently the group counts have been varying between 32 and 48. The last group is now always the date the message was compiled and the group count minus one. For example a message of 40 groups compiled on the 10th of the month, the last group would be 10039.

This also applies to the M1 B network.

Type of transmission is MCW using low modulation of 2 audio tones.  
Sent at about 17 WPM although this can vary depending on the operator

Reference	Call	Preamble	Message	Ending
M1	197 R4	381 381 40 40 = =	40x5F	= = 381 381 40 40 000

The IDs for this group remain the same for the following months.

197 November December January February

463 March April September October

025 May June July August

Transmission times are

Sunday 0700    Tuesday 1800 2000    Thursday 1800 2000    Saturday 1500

Frequencies

197	5464	5320 4490	5320 4490	5810
463	6508	5474 5017	5474 5017	6261
025	6780	5280 4905	5280 4905	6434

Variants of M1

M1A End of Month transmissions, the last Thursday and Saturday of each Month. But not always. The February end of Month were just the normal transmission. It has happened before when one month was missed, but they returned the next month. Hopefully this will be at the end of March. These transmissions are an entirely different format to the normal M1 but they can vary each time. One characteristic is the long pauses between various parts of the message. As the last part of the format is a repeat of some of the groups in the message sent, I assume the pauses are for replies to be sent. There is not always a message sent so the transmission can be considerably shorter than the example listed.

463 463 463 88528 88528 Repeated 5 times

Pause 60 seconds

463 463 333 89909 89909 Repeated 2 times

Pause 60 Seconds

111 Pause 10 Seconds

111 223 43 =

Message of 43 single 5 figure groups, the last group is not always the date and group count as in M1A

= 223 43

Pause 35 Seconds

111 48738 65465 Repeat of groups 17 and 32

Pause 15 Seconds

111 000

M1 B Network.

These are sent to individual IDs and the frequencies are changed at intervals so cannot be listed. I can supply some current frequencies if required. These messages are repeated and can be the same for four weeks or more. Parallel freqs are used, group counts vary between the low twenties and as high as seventy five. Some present skeds are:

Day	Time	Freq	ID
-----	-----	----	---
Sunday	1640	4771	?
Monday	1818	4950	103
Monday	2110	5335	136



Wednesday	1610	5235	325
Wednesday	1818	4950	103
Thursday	2132	4905	302
Friday	2202	4761	271
Saturday	0810	4959	594
Saturday	1610	5240	325

Some of these repeat the same message to a different ID The one on Thursday at 2132 and Friday at 2202 are the same message. It is also strange how some of them start at odd times

M1C A common format of these is listed. Several other formats exist. If a message is sent it is nearly always 10 groups:

385 385 385 84297 84297 Repeated 8 times  
 30 Second pause  
 385 385 385 86652 86652 Repeated 8 times  
 Can be any number of these, usually machine sent, ending is hand sent.  
 385 385 385 000

These can be on at any time and do not use the normal M1 frequencies so are very difficult to find.

MEMORY LANE: THE SKYLARK by Simon Mason

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 This was probably the strangest of the European numbers stations, not the least because of the distinctive interval signal used. The tune itself lasts for 2 minutes, 42 seconds and is played on a violin and pan pipes. It was composed by Ciocorliar and is titled "The Skylark". By coincidence, one evening at 2301 was listening to the BBC's domestic Radio Four. After the program ended the studio announcer said that the next program was going to be all about traditional Rumanian folk music.

Not my cup of tea, I thought, so I headed across the room to switch off the receiver. Before I got to the off switch a piece of music stopped me in my tracks. It was the same tune as used by the Romanian number station. After the song ended, the announcer identified the music and went on to say that it was a very popular melody of Romania and was instantly known to natives of that country. Not surprising perhaps then, that this tune should be chosen for such a clandestine activity.

The next encounter with the station came in a newsletter issued by the DX Club of Radio Budapest. A member from Britain, a Mr. Palmer, had written to the club asking if any of its members could identify a strange Gypsy tune that could be heard on certain frequencies. A few months later a club member from the Soviet Union, a Mr. Skarzhinsky, gave this explanation: Very unusual station. You have heard a

transmission in Romanian which can often be heard in the band up to 10 MHz, on "outside band" frequencies very clearly and distinctly. It broadcasts a Skylark melody which is followed by groups of figures in Romanian. The transmission ends with the word terminat, terminat. There are several similar transmissions, however these usually are not interesting to DXers due to the closed nature of their activities."

Despite what the Soviet contributor said, the majority of these broadcasts do not contain any traffic in 5 figure groups or otherwise. The usual format was that the tune was played twice, which lasts until six minutes past the hour. A male voice in Romanian then says "terminat" three times and the tune is repeated twice again, followed by 'terminat, terminat" again. If traffic is being sent then a taped, real male voice reads but the five figure text in Romanian. These are "unu, doi, trei, patru, cinci, sase, sapte, opt, noua, zero." These sound like: "oonu, doy, trey, patru, sinch, sassay, shaptay, noah, zero." The numbers come after the two Skylark tunes and end again with 'terminat, terminat" repeated three times. It is certain that "live" announcers are used, as different male voices have been noted.

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Numbers + Oddities Logs column #01, April 1998

Jascha Ruesseler

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Hi all and welcome to the first N&O logs column. The log format will be slightly different from the one used in the WUN-newsletters log section:

FREQ C/S STATION (Enigma code) TIME (+date) MODE (baud) REMARKS  
(INITIALS)

Example:

10426 unkn LINCOLNSHIRE POACHER (E3) 1540 (13-4-98 day/month/year) USB  
ongoing msg.(JR)

If you don't know a callsign just ignore this entry.

The logs used in this column have been posted to the Spooks and/or WUN mailing lists. If you want to remain anonymous you can send your loggings directly to me (adr. see above) and I include them without revealing your identity. Alternatively, you can send your loggings to Ary. It would help a lot if you would keep to this format whenever posting logs to WUN or Spooks. The logs in this column will be sorted by frequency and all modes are included in the same section. I also added a section of \*extra-logs\* including posts which did not contain enough data to make a complete logging.

-----  
3150 PCD MOSSAD (E10) 2031 (31-3-98) EE/YL PCD (JD)

3417 ART MOSSAD (E10) 2035 (31-3-98) AMEE/YL ART (JD)  
 3640 CIO MOSSAD (E10) 2036 (31-3-98) AM EE/YL CIO2 (JD)  
 3824 SWEDISH RHAPSODY (G2) 2236 (4-4-98) GG/YL 5 fig groups (JD)  
 3840 YHF MOSSAD (E10) 2030 (31-3-98) AM EE/YL YHF Group 3 text then 5 letter groups (JD)  
 4016 M8 0407 (9-4-98) (possibly - had 5LG CW) in progress - NEW this time/freq (PFR)  
 4027 M8 (Cut-numbers Morse station) 0300 (13-3-98) CW a lot fainter than on 6768 (PFR) M8 0300 (10-4-98) CW same as 0200z/5116 (PFR)  
 4028 SPANISH LADY (V2) 1041 (30-3-98) USB in progress, s3. (SD)  
 4030 (S10) ?? 0630 (8-4-98) AM IDs 109 and 541 (GD)  
 4036 CUBA?/SPOOK THE LETTER MAN, 1100 (7-4-98) a new one, open carrier to 1100 into SP M (all caps spelled phonetically): "comienzo T2DO JULIR TANGO VICTOR INDIA LIMA YANKI VICTOR HOTEL LIMA TICO LIMA FOXTROX TICO XRCY OSCAR BRAVO 2DON final final". Typos are his. In other words, he was spelling out phonetics with phonetics, and used "segundo" for two, tango for T (not tico). Brief pause, "Repito, comienzo....." and did the whole thing over again. Done around 1105Z. Good. Yachts showed up on freq at 1111, LOPEZ wkg THOMASINA. (ANUS)  
 4106 CUBA/SPOOK THE BORED MAN 1325 (29-3-98) USB SP M then SP W longcounts, "hola hola" stuff, weak //6868 which was very strong. Also a carrier on freq cutting in and out randomly, possibly related. Normally would have begun t/c at 1400 now that Cuba was on summer time, but couldn't check. (ANUS)  
 4120 REVERBERATOR, 1209 (3-4-98) USB ss9//9. //4450 (SD)  
 4165 KPA MOSSAD (E10) 2205 (21-3-98) AM KPA 2 broadcast // 2953 khz (AB)  
 4270 MOSSAD (E10) 2036 (31-3-98) AM EE/YL 5 letter groups (JD)  
 4420 BMS XM, 1435 (6-4-98) s2. (SD)  
 4450 REVERBERATOR, 1209 (3-4-98) USB ss9//9. //4120(SD)  
 4478 M8 0300 (14-3-98) UUMAN WIMRD NNDMN (PFR)  
 4479 V2 0412 (13-3-98) in progress (PFR) Atencion (V2) 0300 (15-4-98) AM YL/SS rptg "Atencion 55001 12553 24803". At 0303, into 5FG. (JM4)  
 4485 CZECH LADY CONTROL (S17) CZ/YL 1355 (5-4-98) 555 313 313 313 05 // 5027 (JD)  
 4507.5 ANDUWRIGMT/M8 0300 (12-4-98) CW 5F/L/G (JM4)  
 4665 MIW MOSSAD (E10) 1816 (21-3-98) AM MIW 2 broadcast (AB)  
 4880 ULX MOSSAD (E10) 2200 (21-3-98) AM ULX 2 broadcast (AB) MOSSAD (E10) 2036 (31-3-98) AM EE/YL 5 letter groups (JD)  
 5027 CZECH LADY CONTROL (S17) CZ/YL 1355 (5-4-98) 555 313 313 313 05 // 4485 (JD)  
 5082 UNID 0036 (3-4-98) maybe any 'SPOOKS' channel marker ? cont. 6 tone music mirrow (AR2)  
 5116 M8 0200 (10-4-98) CW GIDMN DUADN GGIUD (PFR)  
 5135 CUBA/SPOOK THE BORED MAN 1350 (29-3-98) USB salsa mx at t/in, 1352 into bits of classical mx alternating w/ SP M repeating

"se\$al X375" and longcounts. Not initially //6868/4106, but couldn't check after 1400. Gone by 1425. XInt sig. (ANUS)

5222 Unid 2058 (2-4-98)CW Should be the CW daughter of FAPSI's 'The Russian/English' Man calling marker: 571 571 571 at 2104z after: = = 3T4 3T4 69 69 (key, groups?) into 2x5 FGS, short Zeros at 2113z end with: = = 3T4 3T4 69 69 TTTTT (AR2)

5262 REVERBERATOR, 1225 (3-4-98) s5. (SD)

5287 M13 2130 (21-3-98) CW Id 411 + 5FG. Ends with 000 (3 long dashes) (AB)

5352 UNID 1745 (2-4-98) CW 5 FGS with short Zeros (T=0)end: =151 3T (key, groups ?) into duplex confirmation-traffic: =73373 =24983 333 111=53T45 =35281 111=TTT and signed off (AR2) - tentatively a military stn from eastern europe - jr

5417 SPANISH LADY (V2) 0720Z (26-3-98) USB in progress, s2. (SD)  
SPANISH LADY (V2) 0735 (30-3-98) USB in progress, s1. (SD)

5423 E7 ? 2040 (31-3-98) mode? EE/OM 5 fig groups x2. Message ended with 289 289 000 000. (JD)

5435 ART MOSSAD (E10) 1900 (5-4-98) AM ART 2 (AB)

5608 CUBA/SPOOK BABBLER 1323 (31-3-98) USB SP W tfc, first time hrd on this freq in a couple of weeks. 5637UC on also, but quiet. (ANUS)

5709 VDE M29 1902 (5-4-98) CW VVV DE VDE + 5FG (AB)

5736 UNID 2040 (2-4-98)Could be also the CW sister of FAPSI's 'Russian/English Man' 2x5 FGS, with short Zeros end with: =465 465 36 36 T T T and signed off (key, groups ?, end)Looks like the logging on 5222 kHz, but this one used only T T T and not TTTTT as a close down signThe Enigma M12 CW uses as close down TTT TTTand 1x5 FGS (AR2)

5746 LINCOLNSHIRE POACHER (E3) 2135 (2-4-98) USB EE/YL 5fg //6959, 9251 (JD)

5758 M8 0313 (10-4-98) CW in progress - NEW this time/freq (PFR)

5759.5 ANDUWRIGMT cut-numbers/M8 0200 (15-4-98) CW (odd choice of freq) 5F/L/G (JM4)

6768 M8 0300 (13-3-98) CW GDWTN AIITD UMUGN (PFR) V2 0412 (13-3-98) in progress (PFR) V2 (Spanish Atencion station) 0300 (13-3-98) 81919 63602 50201 (PFR) SPANISH LADY (V2)0300 (10-4-98) 59243 38792 49273 - possibly same as 0200z/6983 (PFR)

6797 SPANISH LADY (V2) 0505 (19-3-98) started late - 09661 20833 60352 - faint (PFR)

6802 V5 (Spanish Counting Station) 0300 (14-3-98) 826, Grupo 47 //8418 (PFR)

6825 M8 0412 (13-3-98)CW in progress - NEW this time/freq (PFR)

6826 Atencion (V2) 0300 (15-4-98) AM YL/SS 5FG in progress. (JM4)

6840 MOSSAD (E10) 1605 (5-4-98) AM EE/YL 5 letter groups (JD)

6854 M8 0356 (9-4-98) CW "header" AAMTN DDNAA DGUUN, same on at 0400 (PFR)

6855 V2 started late at 0303z and already into groups (PFR) M8 0527 (14-3-98) CW in progress (PFR)

6866 M8 0311 (14-3-98) CW in progress - NEW this time/freq (PFR)

6868 CUBA BORED MAN tx test (starring Ruperta the Alligator Girl)  
 2010-2129\* (3-4-98) tune in to USB+carrier relaying hardwire  
 voice circuit, SP M repeating "QUINTO NEGATIVO, 3617, ESCRIBO  
 FINAL" several times. Also short counts by SP W. At 2014 3617  
 clg ESCRIBO. 50 clg 3617 at 2017. ESCRIBO and 3617 seemed to be  
 on same tx, while 50 seemed to be on different SSB tx while  
 carrier remained on the whole time (this is typical, actually,  
 for this kind of Cuban operation). Little else to 2029, when tx  
 jumped to 6870.7. 2033 pulled plug, then back on 6868.2 in CW w/  
 V's, SOS a couple of times, then back to open carrier on 6870.8.  
 Some keyed morse buzzing sound then. 2100 suddenly switched to  
 RTTY 50/500R centered on 6868.1, handkeyed RYRY, then into  
 repeating RYRY tape. 2110 RYs halted and some opchat: "DIME COMO  
 TU ME COPIAS ADT" 2x then "ADT DIME QUIEN POR ESA ADT DIME SI ES  
 GISELL LA BOBA ADT" and "NO ES RUPERTA LA CAIMANA AR" then back  
 into RY stuff. 2118 idles, which then "spun down" to a stop, so  
 using a mechanical terminal evidently.  
 2121 back into RYRY tape again to 2125 more poorly typed opchat:  
 "DFALAMO Y MISLE Y DYS SONV COMPANEROS" then pulled plug 2129.  
 Xlnt signal. No return links noted on lower HF anywhere. ADT has  
 been mentioned previously, is apparently a hardwire TTY ckt, and  
 presumably has something to do with DAAFAR air defense. (ANUS)  
 THE LAZY SPANISH MAN (V20)1400 (12-4-98) USB OM/EE (live) rptg  
 "R290" w/1-10 count. At :17, YL took over with what sounded like  
 1-20 count. Weak, and not heard on 4106 or 5135 from here. (JM4)

6959 LINCOLNSHIRE POACHER (E3) 2100 (30-3-98) EE/YL id 11994 // 9251,  
 11545(JD) LINCOLNSHIRE POACHER (E3) 2135 (2-4-98) USB EE/YL 5fg  
 // 5746, 9251 (JD) LINCOLNSHIRE POACHER (E3) 2231 (4-4-98) USB  
 EE/YL 5 fig groups // 9251, 11545 (JD) LINCOLNSHIRE POACHER  
 (E3) 1601 (5-4-98) USB EE/YL id 84176 // 9251, 11545 (JD)

6983 SPANISH LADY (V2)0200 (10-4-98) missed header but first group  
 was 59243 (PFR)

7337 LINCOLNSHIRE POACHER (E3) 2020 (31-3-98) USB EE/YL 5 fig groups  
 (JD)  
 LINCOLNSHIRE POACHER (E3) 2105 (31-3-98) USB EE/YL id 93551//  
 9251 (JD)

7457 COUNTING STN (E5) 1330 (4-4-98) 3/2 fg (CT)

7482 SPANISH LADY (V2) 0356 (9-4-98) "header" Atencion 47291 26103  
 78322, same on at 0400 \*\* both (i.e. this and 6854 -jr) went off  
 by 0357z - did not get a chance to check 6785 (PFR)

7484 Cherry Ripe (E4) 1300 (15-4-98)USB YL/EE rptg "33842" w/tune. At  
 1310, into 5FGx2. // 11570, 13866 (JM4)

7555 V2 0300 (12-4-98) AM YL/SS 5FG in progress (JM4)

7583 M8 0700 (5-4-98) CW id UWRMN AMRMA NRTRA (cut nmbrs anduwright)  
 + 5FG (AB)

7581 M8 0500 (19-3-98) CW WTUTA AMWGA UATUN (PFR)

7540 MOSSAD (E10) 1430 (6-4-98) USB id JSR, s1 (weak w/ QRM). (SD)

7547 THE COUNTING STATION (E5) 1300 (3-4-98) USB id 619 count 215, ss3//1. //10529 (SD)  
 7583 Atencion (V2) 0200 (15-4-98) AM (new frequency) YL/SS 5FG in progress. (JM4)  
 7726 CUBAN NUMBERS STN 0507 AM w/YL/SS 5FGs (DW2) 7726 RUSSIAN MAN (S7)0507Z (26-3-98) AM in progress, s2. (SD) 0500 (31-3-98) AM RUSSIAN MAN (S7) id 792, s3. (SD)  
 7740 GOLF KILO 2100 (5-4-98) CW Id 856 + 5FG (AB)  
 7918 MOSSAD (E10) 0433(28-3-98) USB id YHF grp 26, s1. (SD) MOSSAD (E10) 0435 (1-4-98) USB in progress, s1. (SD)  
 7926 RUSSIAN MAN (S7) 0520Z (26-3-98) AM id 792, s2. (SD) RUSSIAN MAN (S7) 0520(31-3-98) AM id 792, s3. (SD)  
 7993 M13 2100 (22-3-98) CW Id 158 + 5FG (AB)Numbers station M13 2100 (24-3-98) CW Id 158 + 5FG (AB)  
 8014 // 9274 THE COUNTING STN (E5) 1500 (5-4-98) USB EE/YL 805 805 805 1234567890 count 215 (JD)  
 8054 M8 0325 (10-4-98) CW in progress - NEW this time/freq (PFR)  
 8108 UNID FAPSI 0016 (3-4-98) RTTY 75/500 5FG ends w/11111. To CW 0017 (RM)  
 8135 UNID (RUSSIA?) SP00K 0245 (3-4-98) unid mode repeating 6 tones to 0250 into unid data format, poss 75 baud but couldn't get a clear autobaud or lock on it despite strong signal, 500 shift, idles sound like RTTY. Later noted high speed CW op chat followed by 2400-ish baud stuff around channel also, 0500Zish. (ANUS)  
 8231 M53 2000 (5-4-98) CW VVV CQ 747.077 + 5FG (AB)  
 8300 NEW STAR BCS (V13) 1500 (14-3-98) barely audible & obscured // 11430 (PFR)  
 8320 Cherry Ripe (E4) 1200 (6-4-98) USB ongoing msg (CT)  
 8418 V5 (Spanish Counting Station) 0300 (14-3-98) 826, Grupo 47 // 6802 (PFR)  
 8464 LINCOLNSHIRE POACHER (E3) 1601 (5-4-98) USB EE/YL id 60681 // 10426, 11545 (JD)  
 8909 SPANISH LADY (V2) 0600 (31-3-98) USB ids 971 02, 584 03, s6 (NEW FREQ) (SD)  
 8975 SPANISH LADY USB (V2) 1012Z (26-3-98) in progress, s3 (NEW TIME/DAY). (SD)  
 9130 MOSSAD (E10) 1622 (5-4-98) AM EE/YL 5 letter groups (JD)  
 9226 RUSSIAN MAN (S7) 0540Z (26-3-98) AM id 792, s5 w/ loud humming. (SD) RUSSIAN MAN (S7) 0540 (31-3-98) AM id 792, s5. (SD)  
 9237 RUSSIAN MAN (S6) 1407 (3-4-98) USB id 967 key 405 grp 22, s3 (ends: 000000). (SD)  
 9238 SPANISH LADY (V2) 0606 (1-4-98) USB in progress, s2. (SD)  
 9251 LINCOLNSHIRE POACHER (E3) 2100 (30-3-98) EE/YL id 11994 // 6959, 11545(JD) LINCOLNSHIRE POACHER (E3) 2105 (31-3-98) USB EE/YL id 93551 // 7337 (JD) LINCOLNSHIRE POACHER (E3) 2135 (2-4-98) USB EE/YL 5fg // 5746, 6959 (JD) LINCOLNSHIRE POACHER (E3) 2231 (4-4-98) USB EE/YL 5 fig groups // 6959, 11545 (JD) LINCOLNSHIRE

POACHER (E3) 1601 (5-4-98) USB EE/YL id 84176 // 6959, 11545 (JD)

9263 CHERRY RIPE (E4) 1105 (6-4-98) USB id 07667, // 13866, 14469 (SD)

9274 // 8014 THE COUNTING STN (E5) 1500 (5-4-98) USB EE/YL 805 805 805 1234567890 count 215 (JD)

9725 TAIWAN NEW STAR (V13) 2203 (30-3-98) CH mx intro into CH W 4FG tfc, poor through BCB splatter. Weak carriers on 8300 and 11430, no audio there. (ANUS)

10426 LINCOLNSHIRE POACHER (E3) 1403 (13-4-98) USB IS, ID 72816 (JR)  
LINCOLNSHIRE POACHER (E3) 1601 (5-4-98) USB EE/YL id 60681 // 8464, 11545 (JD)

10529 COUNTING STN (E5) 1330 (4-4-98) 3/2 fg (CT) THE COUNTING STATION (E5) 1300 (3-4-98) USB id 619 count 215, ss3//1. //7547 (SD)

10715 SPANISH LADY (V2) 0304 (10-4-98) started - (Atencion left off first time) 97081 31481 34351 then into groups at 0306z Anyone still doubt that V2 and M8 come from the same location? (PFR)

11270 RUSSIAN MAN CONTROL (S25) 0820 (1-4-98) AM RR/OM 615 615 615 81433 (JD) RUSSIAN MAN CONTROL (S25) 0830 (2-4-98) AM RR/OM 615 615 615 09648 (JD) RUSSIAN MAN CONTROL (S25) 0837 (3-4-98) AM RR/OM 615 615 615 80770(JD)

11430 NEW STAR BCS (V13) 1500 (14-3-98) barely audible & obscured // 8300 (PFR)

11545 LINCOLNSHIRE POACHER (E3) 2100 (30-3-98) EE/YL id 11994 // 6959, 9251(JD) LINCOLNSHIRE POACHER (E3) 2231 (4-4-98) USB EE/YL 5 fig groups // 6959, 9251 (JD) LINCOLNSHIRE POACHER (E3) 1401 (5-4-98) USB EE/YL id 64316 // 14487, 15682 (JD) LINCOLNSHIRE POACHER (E3) 1601 (5-4-98) USB EE/YL id 60681 // 8464, 10426 (JD) LINCOLNSHIRE POACHER (E3) 1705 (5-4-98) USB EE/YL id 68034 // 12603, 13375(JD) LINCOLNSHIRE POACHER (E3) 1601 (5-4-98) USB EE/YL id 84176 // 6959, 9251 (JD) LINCOLNSHIRE POACHER (E3) 1500 (14-3-98) USB id 20129 //12603 barely audible behind "bleep-beacons" in Phx and 13375 tune audible, numbers very faint. On 13375 also at 1638, vy weak. (PFR) LINCOLNSHIRE POACHER (E3) 1400 (11-4-98) USB id 68034 // 12603, 13375 (JM4) 11570 CHERRY RIPE (E4) 1200 (6-4-98) USB ID 43784 (CT) Cherry Ripe (E4) 1300 (15-4-98)USB YL/EE rptg "33842" w/tune. At 1310, into 5FGx2. // 7484, 13866 (JM4)

12056 CHERRY RIPE (E4) 1200 (6-4-98) USB ongoing msg, with fluttery jammer (CT)

12159 2253 - 2306 (14-4) usb s7dB calling 236 then went to 3ng / 2ng finished with 0000, this is the 1st time I have caught them here on this freq in 3 years ,the old freq 12156.0 and it was in the am, i also noticed that this OL sounded like a Russian speaker?? I base this on I listen to a lot of radio Russia sw broadcasts and some of the numbers sounded exactly the same, of course anyone may be able to do this, I wonder if this was coming from Cuba??? (CT)

12221 THE COUNTING STATION (E5) 1200 (29-3-98) USB id 216 count 215,  
= ss3//3. (SD)

12603 LINCOLNSHIRE POACHER (E3) 1403 (13-4-98) USB IS, ID 72816 (JR)  
LINCOLNSHIRE POACHER (E3) 1705 (5-4-98) USB EE/YL id 68034 //  
11545, 13375(JD)

13371 CUBA Atencion Spook 2000 (6-4-98) SP W old style callup "365  
03", good. (ANUS)

13375 LINCOLNSHIRE POACHER (E3) 1705 (5-4-98) USB EE/YL id 68034 //  
11545, 12603(JD)

13426 Unid. 1605 (3-4-98) CW Appeared to be resending of some 5FG's  
(T=0) to clarify 5FG's that may've been sent on another freq.  
(RM)

13533 MOSSAD (E10) 0602 (31-3-98) USB id EZI1, s1. (SD)

13750 NEW STAR (V13), 1103 (27-3-98) AM s1. (SD)

13866 CHERRY RIPE (E4) 1200 (6-4-98) USB ongoing msg. Vy faint. Freq  
also used at 1300 same day (CT) 1105 (6-4-98) USB CHERRY RIPE  
(E4) id 07667, // 9263, 14469 (SD) Cherry Ripe (E4) 1300  
(15-4-98)USB YL/EE rptg "33842" w/tune. At 1310, into 5FGx2. //  
7484, 11570 (JM4)

13905 COUNTING STN (E5) 1200 (29-3-98) AM ID 216 (AB)

13906 THE COUNTING STATION (E5) 1200 (29-3-98) USB id 216 count 215,  
= ss3//3. (SD)

14469 CHERRY RIPE (E4) 1105 (6-4-98) USB id 07667, // 9263, 13866 (SD)

14487 LINCOLNSHIRE POACHER (E3) 1703 USB Preamble: 64316 (RM)  
LINCOLNSHIRE POACHER (E3) 1403 (13-4-98) USB IS, ID 72816 (

14487 LINCOLNSHIRE POACHER (E3) 1000 (30-3-98) USB EE/YL id 99388 //  
16084 // 15682(JD) LINCOLNSHIRE POACHER (E3) 1000 (31-3-98) USB  
EE/YL id 11994 // 15682, 16084 (JD) LINCOLNSHIRE POACHER (E3)  
1229 (5-4-98) USB EE/YL 5 fig groups // 16084 (JD) LINCOLNSHIRE  
POACHER (E3) 1303 (5-4-98) USB EE/YL id 18604 // 16084 (JD)  
LINCOLNSHIRE POACHER (E3) 1401 (5-4-98) USB EE/YL id 64316 //  
11545, 15682 (JD) Lincolnshire Poacher (E3) 1400 (15-4-98) USB  
YL/EE rptg "43\_\_8". Very weak. // 15682, 16084 (JM4)

14890 RUSSIAN MAN CONTROL (S25) 0800 (2-4-98) AM RR/OM 615 615 615  
01568 (JD) RUSSIAN MAN CONTROL (S25) 0812 (3-4-98) AM RR/OM 615  
615 615 85510 (JD)

14935 SPOOK "Boris Badanov" 1413 (4-4-98) EG M 5FGs 2x, poor through  
co-channel BCB spur probably from HCJB. (ANUS)

15624 CHERRY RIPE (E4) 0100 (7-4-98) USB id 44303, // 19884, 21866  
(SD)  
CHERRY RIPE (E4) 1003 (3-4-98) USB EE/YL id 62977 // 17499 (JD)

15682 LINCOLNSHIRE POACHER (E3) 1000 (30-3-98) USB EE/YL id 99388 //  
14487, 16084 (JD) LINCOLNSHIRE POACHER (E3) 1000 (31-3-98) USB  
EE/YL id 11994 // 14487, 16084 (JD) LINCOLNSHIRE POACHER (E3)  
1401 (5-4-98) USB EE/YL id 64316 //11545, 14487 (JD)  
LINCOLNSHIRE POACHER (E3) 1300 (12-4-98) USB YL/EE rptg "18604"  
w/tune. At 1510,  
into 5FGx2. // 16084 (JM4) Lincolnshire Poacher (E3) 1400



(15-4-98) USB YL/EE rptg "43\_\_8". Very weak. // 14487, 16084 (JM4)

16084 LINCOLNSHIRE POACHER (E3) 1000 (30-3-98) USB EE/YL id 99388 // 14487, 15682 (JD) LINCOLNSHIRE POACHER (E3) 1000 (31-3-98) USB EE/YL id 11994 // 14487, 15682 (JD) LINCOLNSHIRE POACHER (E3) 1229 (5-4-98) USB EE/YL 5 fig groups // 14487 (JD) LINCOLNSHIRE POACHER (E3) 1303 (5-4-98) USB EE/YL id 18604 // 16084 (JD) LINCOLNSHIRE POACHER (E3) 1300 (12-4-98) USB YL/EE rptg "18604" w/tune. At 1510, into 5FGx2. // 15682 (JM4) Lincolnshire Poacher (E3) 1400 (15-4-98) USB YL/EE rptg "43\_\_8". Very weak. // 14487, 15682 (JM4)

17499 CHERRY RIPE (E4) 2300 (31-3-98) USB id 85161, (SD) CHERRY RIPE (E4) 1003 (3-4-98) USB EE/YL id 62977 // 15624 (JD)

19884 0018 (7-4-98) USB CHERRY RIPE (E4)//15624, 22108 in progress. (SD) CHERRY RIPE (E4) 0100 (7-4-98) USB id 44303, // 15624, 21866 (SD)

20474 CHERRY RIPE (E4) 2300 (31-3-98) USB id 85161, (SD)

21866 CHERRY RIPE (E4) 0100 (7-4-98) USB id 44303, // 15624, 19884(SD)

22108 CHERRY RIPE (E4)0018 (7-4-98) USB)//15624, 19884 in progress.(SD)

23461 CHERRY RIPE (E4) 2300 (31-3-98) USB id 85161, (SD)

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-----extra-logs:-----

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And finally some logs without enough data to make a real log out of it (e.g. missing freq):

Whilst listening to Radio Pyongyang the other evening at 2020 UTC (you sad man), I heard a previously unreported MOSSAD station, with a broadcast that lasted only 3 minutes. HOTEL NOVEMBER CHARLIE-HOTEL was repeated by the usual YL. Last night (2 APR 98) AT 1900 UTC it was noted again with HOTEL NOVEMBER CHARLIE-ZULU, again with a transmission lasting only 3 minutes. It would seem to be like ZWL and OEM i.e. very elusive. Freq was 6575. (SM) R. Pyongyang is on 6576 khz -jr

Some FAPSI RTTY-logs from Bob Roehrig:

Fri Apr 10:

2000Z 16218 kHz HZW with 1/62 msg  
 2007Z 13526 kHz HZW rpt of above  
 2050Z 18401 kHz KAC with 5/770 msgs  
 2106Z 14373 kHz KAC rpt of above  
 2200Z 20140 kHz YBU with only 46's - no tfc  
 2230Z 14843 kHz JMS with 2/224 msgs (missed 13621 xmsn afterwards)  
 2300Z 12196 kHz WFO with 3 msgs  
 2300Z 10841 kHz MIG QSL's or asks for rpts to WFO on CW.

Sat Apr 11:

1735Z 16448 kHz KRN with 2/301 msgs  
 1745Z 14467 kHz KRN rpt of above  
 2000Z 16218 kHz HZW with 1/62 msg (same as yesterday)  
 2007Z 13526 kHz HZW rpt of above

2050Z 18401 kHz KAC with 4/619 msgs  
2104Z 14373 kHz KAC rpt of above

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SD: Simon Deneen, Gold Coast, Queensland, Australia.  
SM: Simon Mason, Kingston upon Hull, England  
??: logs from a msg. Fwd. By Chris Smolinski

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